

AC TO DC CONVERTER CIRCUIT

ABSTRACT OF THE DISCLOSURE

An AC to DC converter circuit 300 includes a transformer 316 having primary 314 and secondary 320 windings, a rectifier bridge 322 coupled to the secondary winding, a DC filter capacitor 328 coupled to the rectifier bridge, a voltage regulator 330 coupled the DC filter capacitor and to DC output contacts 332, 334. The converter circuit includes an AC reactance 312 coupled in a series circuit with the primary winding and AC input contacts 304, 306. The AC reactance limits AC excitation voltage at the primary winding to less than the AC line voltage.